| Inde | x of ( | Claims |  |
|------|--------|--------|--|
|      |        |        |  |

| Application/Control No |
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Applicant(s)/Patent under Reexamination

09/483,317

Michael K. Botts

LIN, BO-IN Art Unit

Examiner

2176

✓ Rejected= Allowed

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
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N Non-Elected

A Appeal

Restricted | | | |

Interference O Objected

|  |   | ىــا                 |          |              |              |          | l        | ı             |              |                |
|--|---|----------------------|----------|--------------|--------------|----------|----------|---------------|--------------|----------------|
| Cla  |   | Doin .               |          |              |              |          |          |               |              |                |
| Cla  | ılm _   | Date                 |          |              |              |          |          |               |              |                |
| Final  | Original  | 6/13/03              | 11/12/03 | - 7/13/04    | 5/6/05       | 2/18/06  | 11/4/08  | C0P1/2.       |              |                |
|  | ①<br>2<br>3   | 77                   | 77       | 1            | 1            | 1        | 7        | Z             |              |                |
|  | 2   | 1                    |          | 1            | 7            | 7        |          | V,            |              |                |
|  | 3   | 7                    | 77       | 7            | 7            | 1        | 7        | Щ             | $\Box$       | $\Box$         |
|  | 5   | 1                    | 1        | 1            | 7            | 7        | マンフ      | LV)           |              | Ш              |
|  | 5   | Ÿ                    | ٧.       | 7            | 1            | 7        | 7        | 14            | Щ            |                |
|  | 6   | 1                    | 777      | 777          | 7777         | 7777     | 7        | 4             | Ŀ            | Щ              |
|  | W   | \ \                  | 1        | 1            | ۲            | 1        | 7        | Ψ,            |              | Н              |
|  | 8   | ママママママママママママママママママママ | 1        | 7            | 7            | 1        | 7        | ₩             | ш            | $\dashv$       |
|  | 10  | 7                    |          | 1            |              | 1        | 7        | 4             | Н            | Н              |
|  | 11  | ij                   | 1        | 1            | 1            | 7        | 1        | <del>//</del> | Н            | $\vdash$       |
|  | 12  | ij                   | V        | Ì            | Ì            | ij       | ij       | 1             | Н            | Н              |
|  | ৰেই   | ij                   |          | 1            | 1            | H        | Ì        | ./            | $\vdash$     | Н              |
|  | 14  | 1                    | 1        | Ì            | 1            | 777      | 7777     | 7             | $\vdash$     | Н              |
|  | 15  |                      | 1        | 1            |              | 1        | 7        | V.            |              | П              |
|  | 6<br>8<br>9<br>10<br>11<br>12<br>(13)<br>14<br>15<br>16<br>17<br>18<br>(19)<br>20<br>21 | 1                    | 1        | 1            | 1            | 7        | 7        | V.            | $\Box$       |                |
|  | 17  | 1                    | 1        | 1            | 1            | 1        | 1        | 17            |              |                |
|  | 18  | 777                  | 1        | 1            | 1            | 1        | 1        | V.            |              |                |
|  | (19)  | 1                    | 1        | 1            | 1            | V        | 1        | II            |              |                |
|  | 20  | 1                    | 1        | 1            | 1            | 1        | 1        | $J_{I}$       |              |                |
| <u> </u>   | 21  | 1                    | 1        | 1            | 1            | V        | 1        | V             | _            | Ц.,            |
|  | 22  | <u> </u>             | <u> </u> | _            | L            | <u> </u> | _        | _             | _            | -              |
|  | 23  | ⊢                    | ⊢        | ⊢            | ┡            | ⊢        | <u> </u> | ├             |              | Н              |
| <u> </u>   | 24  | ⊢                    | ⊢        | ⊢            | ⊢            | ⊢        | -        | -             | ⊢            | Н              |
| <u> </u>   | 24<br>25<br>26<br>27<br>28<br>29  | ┢                    | ┢─       | ┢            | ⊢            | ⊢        | $\vdash$ | ┢             | ┝            | Н              |
|  | 27  | ┢                    | ┢        | ╌            | $\vdash$     | ┢        | ┢─       | ├             | -            | ┢─┤            |
| ├  | 28  | -                    | ┢        | <del> </del> | ├-           | ┢        | -        |               |              | Н              |
|  | 29  | T                    | 1        | <u> </u>     | 一            |          |          | $\vdash$      | $\vdash$     |                |
|  | 30  |                      | t        | t            |              |          |          | Т             |              |                |
|  | 31  |                      |          |              | <u> </u>     |          |          |               |              |                |
|  | 32  |                      |          |              |              |          |          |               |              |                |
|  | 33<br>34  |                      |          | <u> </u>     | _            | L        | <u> </u> | ┖             | L            | Ш              |
|  | 34  | <u> </u>             | ╙        | ⊢            | $\vdash$     | $\vdash$ | <u> </u> | <b> </b>      | <u> </u>     | Щ.             |
| <u> </u>   | 35<br>36  | $\vdash$             | <u> </u> | ├-           | <del> </del> |          | ├-       | $\vdash$      | $\vdash$     | Щ              |
| <b></b>  | 36  | ├-                   | ⊢        | ⊢            | $\vdash$     | $\vdash$ | $\vdash$ |               | <u> </u>     | -              |
| <del> </del>                                     | 37<br>38  | ╁                    | +-       | $\vdash$     | ⊢            | ⊢        | -        | ╫             |              | -              |
| <b></b> -  | 39  | ┼                    | ┼        | ╁╾           | ╁            | $\vdash$ | ┢        | ┢             | <del> </del> | -              |
| <del>                                     </del> | 40  | $\vdash$             | ┢        | $\vdash$     | Н            | $\vdash$ | ┢        | -             | -            | -              |
|  | 41  | t                    | t        | t            | T            | t        | $\vdash$ |               | 1            | $\vdash$       |
|  | 42  |                      | T        | T            | Г            |          | Г        |               | $I^-$        | Г              |
|  | 43  |                      |          |              |              |          |          |               |              |                |
|  | 44  | Ŀ                    |          |              |              | L        |          |               |              |                |
|  | 45  |                      |          | Г            |              |          |          | $\Box$        |              | 匚              |
|  | 46  | Ľ                    | $\Box$   | $\Box$       | $\Box$       | L        | $\Box$   |               |              | $\Box$         |
|  | 47  | ऻ_                   | ┖        | _            |              | ┖        | _        | <u> </u>      | <u> </u>     | <b>!</b>       |
| L  | 48  | <b> </b>             | ↓_       | ↓_           | ₩            |          | ┡        | $\vdash$      | $\vdash$     | <del> </del> _ |
|  | 49  | <b> </b>             | ↓_       | ╄            | -            | ↓_       |          | -             |              | ⊢              |
|  | 1 5O  | 1                    |          | 1            | 1            | 1        |          |               | 1            |                |

| Claim  |          | Date            |           |          |  |            |  |  |              |            |
|--|----------|-----------------|-----------|----------|--|------------|--|--|--------------|------------|
| Final  | Original |                 |           |          |  |            |  |  |              |            |
|  | 51       | T               | $\neg$    |          |  |            |  |  |              |            |
|  | 52       |                 |           |          |  |            |  |  | _1           |            |
|  | 53       |                 |           |          |  | _          |  |  | _1           | ヿ          |
|  | 54       |                 |           |          |  |            |  |  |              |            |
|  | 55       |                 |           |          |  |            |  |  |              |            |
|  | 56       |                 |           |          |  |            |  |  |              |            |
|  | 57       |                 |           |          |  |            |  |  |              |            |
|  | 58       | Ц               | _         | Ш        |  |            |  |  | _4           | Ц          |
|  | 59       | Ш               | _         |          |  | Щ          |  |  |              |            |
|  | 60       | $\sqcup$        | _         | $\perp$  |  |            | _  | _  | _            | $\Box$     |
|  | 61       | Н               |           | _        |  | -          |  | _  | -            | Н          |
|  | 62       | Щ               | _         | Н        | _  | $\vdash$   | _  | H  | Щ            | $\vdash$   |
| ļ  | 63       | $\vdash \vdash$ |           | $\vdash$ |  |            | _  | <u> </u>   | $\vdash$     | $\dashv$   |
|  | 64       | Н               |           | Н        |  | $\vdash$   |  | H  | -            | $\dashv$   |
|  | 65<br>66 | -               | _         |          |  | -          |  | H  | H            | $\vdash$   |
|  | 67       | Н               | _         | Н        | -  | _          | -  | -  | -            | $\dashv$   |
| -  | 68       | Н               | -         |          |  | _          | ⊢  | -  | H            | $\vdash$   |
|  | 69       | Н               | _         | _        | $\vdash$   | $\vdash$   | -  | -  | -            | $\dashv$   |
|  | 70       | $\vdash$        | $\exists$ | _        | H  | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     | Н          |
| $\vdash$   | 71       | Н               | -         |          | _  | H          |  | -  |              | Н          |
| <del> </del>                                     | 72       | Н               | -         |          | _  | $\vdash$   | ┢  | -  | ┢            | Н          |
| <del></del>                                      | 73       | Н               |           |          |  | $\vdash$   | _  | ┢╾   | -            | Н          |
| <del></del>                                      | 74       | Н               |           | $\vdash$ | _  | Т          | $\vdash$   | Г  |              |            |
|  | 75       |                 |           |          |  |            | <u> </u>   |  | Г            | П          |
|  | 76<br>77 | П               |           | Г        |  | Г          |  |  |              |            |
|  | 77       |                 |           |          | (+1  |            |  |  |              |            |
|  | 78<br>79 |                 |           |          |  |            |  |  | 匚            |            |
|  | 79       | Ш               |           |          | _  |            |  | _  | L            | Ш          |
|  | 80       | Ш               |           | L        | _  | <u> </u>   | L  | Ļ  | <u> </u>     | Ш          |
|  | 81       | <u> </u>        |           |          | _  | ļ          | <u> </u>   | ┞  | ├-           | Ш          |
| <u> </u>   | 82       | L               | _         | -        | <u> </u>   |            | _  | <b> </b>   |              | ┝          |
| <u> </u>   | 83       | L               | ļ         | ├        | ļ  | <u> </u>   | ₽-   | ├  | -            |            |
| <u> </u>   | 84<br>85 |                 | <u> </u>  | $\vdash$ | $\vdash$   | $\vdash$   | ├  | ├  | ⊢            | Н          |
| $\vdash$   | 86       | $\vdash$        |           | ├        |  | $\vdash$   |  | ╁  | $\vdash$     | Н          |
| <del> </del>                                     | 87       | $\vdash$        | _         | $\vdash$ | ┝  | ┢          | <del>                                     </del> | $\vdash$   | $\vdash$     | Н          |
| $\vdash$   | 88       | $\vdash$        | $\vdash$  | $\vdash$ | <del>                                     </del> | $\vdash$   | $\vdash$   | <del>                                     </del> | $\vdash$     |            |
|  | 89       | $\vdash$        | $\vdash$  | Н        | H  | $\vdash$   | $\vdash$   | $\vdash$   | <del> </del> | $\vdash$   |
| <del>                                     </del> | 90       | Н               | _         |          | Т  | $\vdash$   | $\vdash$   | †  | 1            | П          |
|  | 91       | Г               |           | 1        | Г  | T          |  |  |              | П          |
|  | 92<br>93 |                 |           |          |  |            |  |  |              |            |
|  | 93       |                 |           |          |  |            |  |  |              |            |
|  | 94       |                 |           |          | $\Box$   |            |  |  |              |            |
|  | 95       |                 |           | $\Box$   | 匚  | 匚          |  |  | 匚            | $\Box$     |
|  | 96       |                 |           | ┕        | L  | <u> </u>   | L  | <u> </u>   | _            | <u> </u>   |
|  | 97       | <u> </u>        | <u></u>   | _        | <u> </u>   | L          | <u> </u>   | Ļ  | _            | <u> </u>   |
|  | 98       | $\vdash$        | $\vdash$  |          | $\vdash$   | ┺          | ـــ  | ┺  | <b>↓</b> _   | <b>!</b> — |
|  | 99       | <b>├</b>        | L_        | ┞        | ┞-   | <b>!</b> — | 1  | <b>!</b>   |              | <b> </b> _ |

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| Claim         |                          | Date                                   |          |          |          |                |          |          |          |          |  |
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|               |                          |  |          |          | ī        |                | Í        |          |          | $\Box$   |  |
| Final         | Original                 |  |          |          |          | ·              |          |          |          |          |  |
|               | 101<br>102               |  |          |          |          |                |          |          |          |          |  |
|               | 102                      |  |          |          |          |                |          |          | ·        |          |  |
|               | 103                      |  | _        |          |          | Щ              |          |          |          | Ш        |  |
|               | 104                      | Ш                                      |          |          |          | Ш              | _        |          | _        | Щ        |  |
|               | 105                      | _                                      |          | Ш        |          | Н              | Н        | _        |          | $\vdash$ |  |
|               | 106<br>107               | Н                                      | _        | Н        | -        | H              | $\vdash$ | $\vdash$ |          | Н        |  |
|               | 107                      | ┢┈                                     | -        | Н        | -        | -              | Н        | $\vdash$ | _        | Н        |  |
|               | 108<br>109               | H                                      | _        | $\vdash$ | $\vdash$ |                | Н        |          |          | П        |  |
|               | 110                      | -                                      |          | П        |          |                | Н        | _        |          | П        |  |
|               | 111                      |  |          |          |          |                |          |          |          |          |  |
|               | 112<br>113               |  |          |          |          |                |          |          |          |          |  |
|               | 113                      |  |          |          |          |                |          |          | Ш        |          |  |
|               | 114                      | L                                      |          | <u> </u> | <u> </u> |                |          | Щ        | _        | Ш        |  |
|               | 115                      |  | ļ        | <u> </u> |          | <u> </u>       |          |          | <u> </u> | Ш        |  |
|               | 116                      | ├                                      |          |          | ⊢        | <del>  -</del> |          |          | _        | Н        |  |
|               | 117<br>118               | ⊢                                      |          | $\vdash$ | -        | <del> </del>   | ⊢        |          | _        | Н        |  |
|               | 119                      | ⊢                                      |          | H        | $\vdash$ | ╌              | H        | H        | -        | Н        |  |
|               | 120                      | ╁                                      | ╁        | 一        | ┝        | ╁─             | H        | ┢─       | H        | Н        |  |
|               | 121                      | Н                                      | Н        | ╁┈       | -        | $\vdash$       | Т        | Н        | 一        | $\vdash$ |  |
|               | 122                      | T                                      |          |          | $\vdash$ |                | Г        | Г        |          |          |  |
|               | 122<br>123               |  |          |          |          |                | $\Box$   |          |          | $\Box$   |  |
|               | 124<br>125               |  |          |          | 匚        | L              | L        | L_       |          | Ш        |  |
|               | 125                      | <u> </u>                               |          | ļ        | <u> </u> | <u> </u>       | ┞        | ļ        | _        | Н        |  |
| <u> </u>      | 126<br>127               | ╀                                      | -        | ├-       | ┡        | ├              | ├-       | ⊢        | ├-       | $\vdash$ |  |
| <b>-</b>      | 127                      | ⊢                                      | ┢        | ┢        | -        | ┢              | $\vdash$ | ⊢        | ┝        | ┢        |  |
|               | 120                      |  | $\vdash$ | ┢        | ├─       | -              | ╁╾       | Η.       | -        | $\vdash$ |  |
|               | 128<br>129<br>130<br>131 | ✝                                      | t        |          | <b>†</b> | $\vdash$       | ┢        | Ϊ        | Т        | $\vdash$ |  |
| _             | 131                      |  | T        |          |          | $\vdash$       | Г        |          | $\vdash$ |          |  |
|               | 132                      |  |          |          |          |                |          |          |          |          |  |
|               | 133<br>134               |  |          |          |          | oxdot          |          |          | L        | Ш        |  |
|               | 134                      |  | _        | <u> </u> | <u> </u> | 上              | 1_       | <u> </u> | <u> </u> | Ш        |  |
|               | 135<br>136               | ↓_                                     | ┡        | <u> </u> | ├        | ⊢              | ↓_       | ⊢        | ┞        | $\vdash$ |  |
|               | 136                      | ⊢                                      | ╀        | ╄        | ╀        | ╂              | ⊢        | ⊢        | ⊢        | Н        |  |
|               | 137<br>138               | ╁                                      | ⊢        | ╀        | ⊢        | ╀              | ╁        | -        | ┢        | Н        |  |
| -             | 139                      | ╁                                      | Н        | ╁╌       | ╁╌       | ┼-             | ╁        | ╁        | $\vdash$ | $\vdash$ |  |
|               | 140                      | T                                      | $\vdash$ | ✝        |          | 1              |          | ┢        | $\vdash$ | П        |  |
|               | 141                      |  | Т        | T        |          | 1              |          |          |          |          |  |
|               | 142                      |  |          |          |          |                | Π        |          |          | $\Box$   |  |
|               | 143                      | $\perp$                                | Ĺ        |          | $\perp$  | L              | 1        | ļ_       | L        | Ш        |  |
| <u> </u>      | 144                      | ــــــــــــــــــــــــــــــــــــــ | ↓_       | 4        | ┡        | 1              | $\perp$  | ↓_       | ╀        | $\dashv$ |  |
| <u> </u>      | 145                      | 1                                      | -        | +        | ╀        | ╀-             | ╀        |          | ╀        | $\vdash$ |  |
| ⊢             | 146<br>147               | +                                      | -        | +        | ╀        | ╁              | +        | ╁        | ╁        | Н        |  |
| <b></b>       | 148                      | +                                      | ╁        | +-       | +        | +-             | $\vdash$ | ╁        | 1-       | +        |  |
| -             | 149                      | +                                      | ╁        | ╁        | ╁        | T              | 1        | t        | T        | T        |  |
|               | 150                      | $\top$                                 | T        | T        | T        | 1              |          |          | Γ        |          |  |
| $\overline{}$ | 1                        | _                                      | _        |          | _        |                |          |          | _        |          |  |